

Date: Fri, 8 Jul 94 02:06:18 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
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Subject: Info-Hams Digest V94 #761
To: Info-Hams

Info-Hams Digest Fri, 8 Jul 94 Volume 94 : Issue 761

Today's Topics:

A Proposed Message System
Contest Question
GB2RS News 10th July 1994
Humorous Field Day Stories?
Kenwood TH-79A info wanted
keyer program to run under windows, Wanted
Legal question
Radios for Emergency Use
Satellites seen from Earth
Wal-Mart 900MHz ATV transmitter?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 8 Jul 1994 04:42:54 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!math.ohio-state.edu!
hobbes.physics.uiowa.edu!news.uiowa.edu!icaen!drenze@network.ucsd.edu
Subject: A Proposed Message System
To: info-hams@ucsd.edu

Bravo! I've thought about a lot of paradigm shifts for
amateur radio, but never one quite like this. Me 'at's off to
you, and I'd like to learn how this goes...I may elect to do it
meself.

--

Doug Renze, N0YVW * drenze@isca.uiowa.edu * N0YVW @ W0IUQ.ia.usa.na
DRenze@aol.com

Date: Fri, 8 Jul 1994 01:42:39 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!world!
drt@network.ucsd.edu
Subject: Contest Question
To: info-hams@ucsd.edu

John E. Taylor III (rohvm1.mah48d@rohmmaas.com) wrote:

: By strict legality, the _station_ is licensed, as well as the operator.
: You're operating his station, therefore you sign with the station's
: callsign.

: There's a justification I've heard for using your own callsign: the owner
: of the station temporarily transfers ownership of the station to you for
: the duration of the contest, which makes it _your_ station, and you're
: entitled to use your own callsign. If anybody were to question that sort
: of thing carefully, I doubt it would hold up, but I suspect the FCC has
: better things to do (like reducing the backlog on new licenses!).

I think this is quite legal (substitute "possession" for "ownership"),
but most contests require a group to use one callsign. And, of
course, if you use someone else's callsign, you're operating under
their station license.

-drt

David R. Tucker KG2S 8P9CL drt@world.std.com

Date: Thu, 7 Jul 1994 09:22:50 +0000
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
sundog.tiac.net!news3.sprintlink.net!news.sprintlink.net!demon!
llondel.demon.co.uk!dave@network.ucsd.edu
Subject: GB2RS News 10th July 1994
To: info-hams@ucsd.edu

Good morning. It's Sunday the 10th of July and here is the GB2RS news
broadcast, prepared by the RSGB and intended for all radio amateurs and
short-wave listeners.

First the headlines:-

Amateurs help summon emergency services,

Two youngsters pass the 12 words per minute Morse, and

Liverpool celebrates a distinguished scientist and former RSGB President.

Amateur radio was used just over a week ago to call out the emergency services to a serious lorry accident. On the evening of Wednesday the 29th Nigel Harrison, GM6XAC, was mobile on the A68, near Oxton in the Borders when he witnessed a tanker overturning and spilling some of its load of Formaldehyde. He used two metres SSB to call Mike Clarke, GM6OFO, in Perth and asked him to call the Police. The Perth Police contacted the Borders emergency services who were later reported by GM6XAC/M as having arrived on the scene. Congratulations to both of these stations on their quick thinking and prompt action.

Congratulations are also due to a couple of the youngest candidates ever to pass the RSGB 12 words per minute Morse test. The two, both girls, were successful at their first attempt at the test in June.

Nine-year-old Jannelle, lives in Portadown, Northern Ireland and is the daughter of GI0UJG. She was taught by GI0PUZ, who sends GB2CW Slow Morse broadcasts on 2 metres.

Diane, who lives in Standon, Staffordshire is ten years old. Her Morse Tutor was G0SKG, who is the RSGB Liaison Officer for the West Midlands. Diane's parents are G0UUM and G0UUN.

The city of Liverpool is celebrating this week the centenary of the first public demonstration of wireless. The experiments were carried out in 1894 by Sir Oliver Lodge who was Professor of Physics at the University of Liverpool. Lodge, who became President of the Radio Society of Great Britain in 1925, developed the work of Clerk-Maxwell and Hertz to pre-date many of Marconi's tests. As part of the celebrations, the Liverpool and District Amateur Radio Society is running a special event station, GB60L, until tomorrow.

The Radiocommunications Agency has informed the Society that Turkey is now participating in the CEPT T/R 61-01 agreement. This means that a reciprocal licence is no longer required for UK amateurs to operate in Turkey.

Next weekend, the 16th and 17th, many special event stations will be active from lifeboat stations. This is to raise money for the Worked All

Britain 25th Anniversary Lifeboat Appeal. Full details can be found in the July edition of Radio Communication. In addition to those listed in RadCom, GB0SHL will be operating from the St Helier Lifeboat Station.

The RSGB QSL Sub-Manager for the entire GI Callsign series is now Mr A Barr, GI7FFF, whose address is correct in the RSGB Call Book. He has taken over the GI Class B series from Mr J M Bruce.

The Goole 70 centimetre repeater GB3GC, became operational again on Wednesday, the 29th of June. The repeater is located in Goole, North Humberside and operates on channel RB4, which has its output on 433.1MHz and input on 434.7MHz. Further details and/or reports should go to the repeater keeper G0GLZ, whose address is correct in the RSGB Call Book.

The Isle of Anglesey 24 centimetre Television repeater GB3TM, is scheduled to become operational next Friday, the 15th of July. The repeater is located at Nebo and operates on channel RMT2R, which has its output on 1316MHz and input on 1249MHz. Further details and/or reports should go to the repeater keeper David, GW8PBX, whose address is correct in the RSGB Call Book.

Now some items of HF DX news from the weekly RSGB DX News Sheet which is edited by Brendan McCartney, G4DY0.

Date: 8 Jul 1994 04:37:06 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!hobbes.physics.uiowa.edu!
news.uiowa.edu!icaen!drenze@network.ucsd.edu
Subject: Humorous Field Day Stories?
To: info-hams@ucsd.edu

jbs@duke.edu (Joe B. Simpson) writes:
>This year I was working 20M phone and came across a QSO in which one party
>was saying, "Yeah, I think there's some kind of contest or something
>going on today..."

heh...I heard this same QSO. Then some idiot jumped right on top of them
and got a butt-chewing.

--

Doug Renze, N0YVW * drenze@isca.uiowa.edu * N0YVW @ W0IUQ.ia.usa.na
DRenze@aol.com

Date: Wed, 6 Jul 1994 22:11:30 GMT

From: almserv!usenet@uunet.uu.net
Subject: Kenwood TH-79A info wanted
To: info-hams@ucsd.edu

Does any one has production information (spec) for Kenwood TH-79A? It should replace TH-78A. Radio Center (Kansas City) gave me a \$469 quote.

Joseph

--

=====

Joseph Hong
Fannie Mae, 3900 Wisconsin Ave. NW, Washington, DC 20016
Voice: (202) 752-7198

Date: Fri, 8 Jul 1994 01:30:15 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!hookup!
cjohnson.ott.hookup.net!cjohnson@network.ucsd.edu
Subject: keyer program to run under windows, Wanted
To: info-hams@ucsd.edu

Does anyone know of a program to key a transmitter from an RS-232 port, such as CW104, that is designed to run properly under windows? It does not have to be a glossy windows only program, only one that knows about windows enough to get the timing correct.

CW104 keys my HW-8 fine, but it does not generate proper timing when running under windows. Here is why I want a simple keyer program that runs under windows.

I work at home, self-employed, and I run under windows all day. Normally I am using it in a CAD environment, designing an integrated circuit. If I exit windows, and then restart it, it takes 10 to 15 minutes to re-run my simulations. But, while I work, I like to leave the xcvr on, and respond to CQs when I hear one that the QRP rig can reach. It would be nice to have a PC keyer available to work QSOs with hams that can copy at 15 WPM, which I can copy, but with my straight key, I can send at about 10 WPM. And, if the QRM is high, then I would prefer to send the best code I can, to maximize my signal being copied at the far end.

I am a new ham, on the air for less than 3 weeks, and so far loving every moment. VA3CSJ

Please reply via email, and I will summarize the responses I receive.

Date: Fri, 8 Jul 1994 01:59:17 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!world!
drt@network.ucsd.edu
Subject: Legal question
To: info-hams@ucsd.edu

Steven Lhamon (slhamon@crl.com) wrote:
: Is it legal according to the FCC for a ham operator using a autopatch to
: dial up a digital pager and page another ham to turn on his radio by
: entering the radio freq. I am curious about this since I would love to
: take my HT to work and if my wife needed me (She's a ham too) page me on
: my digital pager to turn my HT on to the freq. she sends to me instead of
: a phone number. Thank you for taking your time to answer or even
: consider this posting. 73's N50VP -Steven
: slhamon@crl.com

I think it's okay - can't think of why it might not be, as long as the
phone number you send is not a code/cypher - or example, if you just
sent a straight number via your keypad. Of course, the voice message
to the same effect would also have to be legal - can't be for your
employer, you can't have a pecuniary interest, control op present, and
so on. And you have to have the permission of whoever owns the
station your operating through (if it's not yours).

-drt

David R. Tucker KG2S 8P9CL drt@world.std.com

Date: Thu, 07 Jul 1994 21:00:00 PST
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!zip.eecs.umich.edu!yeshua.marcam.com!
charnel.ecst.csuchico.edu!psgrain!nntp.cs.@@ihnp4.ucsd.edu
Subject: Radios for Emergency Use
To: info-hams@ucsd.edu

eugene@wilbur.nas.nasa.gov (Eugene N. Miya) writes:

>
>Oh, am I a real hiker? I tend to avoid radios, but ex-work occasionally
>requires it. The problems I have with Hal's text as it stands involve
>the philosophical problem of carrying that kind of technology into the woods.

>We ignore the obvious case of professionals doing their duty (when this was
>last covered). The fact is that some organizations who lead trips forbid
>the use of some of this technology. (Period.) The problem of "false
>sense of security" is another area not addressed by Hal's text; this has been
>known for decades as the bodies of 9 Russian women who had a radio can attest
>with their last words: "We die now." So a radio is not a panacea.
>Leaving the text as it is represents a tacit assumption that this is
>generally condoned in the woods: and in large part, it is not.
>The question is how to achieve the right sense of balance which Hal's text
>lacks. In case the reader (more radio oriented) thinks this is a joke,
>I refer to the article in Backpacker "Galen Rowell [a noted climber and
>photographer] Almost Killed Me" and Rowell's side bar response. I doubt
>Hal would like a similar "Hal (or me or any rec.radio poster name)
>Almost Killed Me" net.post. It's not clear to me that consensus is what
>you want. You want expertise.
>

I'm not quite sure how to take this post. In what way would carrying a
radio while hiking not be "condoned", and by whom? And why would anyone
pay attention to such a kook?

Assuming that you're serious (I've never seen the magazine you mention),
and that what you want is emergency communications, I suggest you use a
portable cellular telephone - since you don't need any special license,
can talk directly to public safety agencies, and presently have coverage
in most of North America as well.

I would not suggest portable CB radios - mainly because none of the ones I
have seen were terribly compact or rugged, the antennas are quite large
and usually flimsy telescoping ones, and your chances of finding
assistance vary widely across the continent. The range is also quite
limited.

If you're a ham, you probably already have a portable VHF or UHF radio,
most of which are reasonably compact - maybe 1 X 2 X 6, and hams often
have repeaters which greatly extend the range of the radio, as well as
allowing, in many cases, autopatches (self dialled telephone
interconnects) to the telephone system. I do suggest that you forget about
re-charging systems while hiking. Most handhelds today have as an option a
battery pack capable of taking AA alkaline cells. My Radio Shack HTX-202,
for example will run 7-8 hours on a fresh pack. Leave the rechargeable
pack on the radio, and take along a spare set of alkalines and holder, as
well as a roll up portable antenna to extend the range if necessary.

If you're not a ham already, you need to study the regulations, etc, as
well as some elementary radio theory and pass a test before you can get an
amateur radio license in either the US or Canada. It's not hard, but
probably not trivial, either, and I don't suggest you do this unless

you're interested in radio generally.

emd@ham.island.net (Robert Smits Ladysmith BC)

Date: 8 Jul 1994 02:28:54 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!spool.mu.edu!torn!news.unb.ca!
nbt.nbnet.nb.ca!nbnet.nb.ca!stjacque@network.ucsd.edu
Subject: Satellites seen from Earth
To: info-hams@ucsd.edu

Hi,
I'm an amateur astronomer and often see satellites moving among the stars.
I was sure that some of you HAMS would have the coordinates, times, dates of
the nighttime visible satellites.
Would some of you spare some time and forward me this info?
My coordinates: long. 68*26, lat.+47*28.
I will really appreciate the info.
Thanks much.
Rachel

Date: Fri, 8 Jul 1994 05:00:03 GMT
From: vigra.com!news.vigra.com!steve@network.ucsd.edu
Subject: Wal-Mart 900MHz ATV transmitter?
To: info-hams@ucsd.edu

Wal-Mart has an interesting gizmo called a "Video Wireless VCR
Multiplier" for \$29.95. It's similar to the Gemini Rabbit TV
transmitter/receiver pairs, but this one is still in production and
stocked.

I bought one to experiment with, and it seems to have some promise for
ATV work. The transmitter has two output frequencies, each with a
tweak pot inside next to the selector switch. It seems to be able to
put out a signal anywhere from 905 to 926 MHz with some stability. I
have no idea what the (low) output power is, though, and the sparse
docs don't say.

There is a new ATV repeater here on Mt. Palomar (San Diego) with a
919.25 MHz input frequency, which is well within range for this
transmitter. I'm looking at a small amplifier advertised by Down East
Microwave. This "DEM 3310PA" 902-928MHz 10W amplifier seems
impressive for \$150 (less for kits). It only needs 10mW of input
drive, so I would guess that the Wal-Mart box can make it happy.

Has anyone tried a setup like this? I'm looking for any tips on where to install an antenna output jack, since the unit has only a screw-in mini telescopic now. My inclination is to just install a BNC jack connected to ground and the current antenna post. Will I have any serious problems with impedance mismatch?

This certainly seems like a cheaper way to go than commercial ham ATV transmitters. Am I missing something?

Thanks!

-Steve

Steve Haehnichen
steve@vigra.com

Vigra, Inc. San Diego, CA
(619) 597-7080 x116 Fax: (619) 597-7094

Date: (null)
From: (null)

Date: (null)
From: (null)

Date: (null)
From: (null)
And from Egypt, OK2FUN is now active as SU1KR on all HF bands.

Now the rallies we know of for today, Sunday the 10th of July:

The VHF/UHF DX Convention, organised by the Northern Lights VHF Contest Group is being held at Reaseheath College, Nantwich, Cheshire. This new event for VHF/UHF users features specialised trade stands, computer software demonstrations and a lecture program, which includes such topics as: six metres, Yagi design, 70 centimetres EME, three centimetres and sporadic-E. Refreshments will be available.

The Horncastle Amateur Radio Electronics and Computer Fair is being held at a venue which is mid-way between Lincoln and Skegness and will be

signposted on the main roads from Boston, Louth, Skegness and Lincoln. The event features trade stands, a bring and buy stall and refreshments. Talk-in will be on 2 metres, channel S22.

The Sussex Amateur Radio and Computer Fair is being held at Brighton Racecourse. Doors open at 10.30am. The event features trade stands covering amateur radio, satellite communications and computer interests, and a bring and buy stall. Refreshments will be available, as will a free shuttle to Brighton sea front.

Next the two events we know of for next Sunday the 17th of July:

The McMichael Rally and Car Boot Sale is to be held at the Haymill Youth and Community Centre, Burnham Lane, near Burnham railway station, Slough. Doors open 10.30am. The event features a car boot sale, no advanced booking is required. Talk-in will be on 2 metres, channel S22. For further details contact Neil, G0SVN or Roy on 0628 25952.

The Radio Amateur Invalid and Blind Club (RAIBC) Romsey Picnic is to be held at Broadlands, Romsey, Hampshire. All members, families, friends and supporters are welcome. The event features a junk sale, a bring and buy stall and a grand draw. Refreshments will be available and talk-in will be on 2 metres, channel S22. Any contributions for the junk sale and offers of prizes for the draw will be greatly appreciated. The callsign GB0IBC, will be aired throughout the event. For further details call John, G4COM on 0703 693017.

A date for your diary: The RSGB's Woburn Rally will take place on Sunday the 7th of August at Woburn Park, Bedfordshire. Full details and a map of the surrounding area can be found in July Radcom page 33. For further information contact Norman Miller, G3MVV, on 0277 225563.

Now for the HF contest news:

The IARU Championship Contest finishes today at 1200 UTC. This covers all HF bands, except the WARC bands, phone and CW, and contestants exchange ITU zones. The RSGB Short-Wave Listener Contest takes place at the same time. See the July edition of Radio Communication for further details for both contests.

The RSGB Low Power Field Day CW Contest takes place next Sunday the 17th of July from 0900 to 1200 and from 1300 to 1600 UTC, using frequencies in the range 3.510 to 3.560MHz and 7.010 to 7.040MHz. See April's RadCom page 80 for full details.

Next some VHF contest news:

The fourth RSGB 24GHz Summer Cumulative Contest takes place from 0900 to

2100 UTC, today Sunday the 10th. See April's RadCom page 82 for full details.

The RSGB 144MHz Low Power Contest will take place on Saturday the 23rd from 1400 to 2200UTC. It features four entry sections: single operator fixed, single operator portable, all others and Listener.

The RSGB 432MHz Low Power Contest will take place on Sunday the 24th of July from 0800 to 1400UTC. April RadCom has further details of both of these low power events.

Special event stations active this month include:

GB800DON which will be operated by members of RAF Finningley Amateur Radio Society for Doncaster's 800 years Festival Celebration. The station is located at the Gala event at Edlington Welfare, next Saturday the 16th, from 0800 to 1800 UTC, using HF CW and SSB, plus FM and SSB on 2 metres and 70 centimetres.

GB1WSF, Washington School Festival, will be active from Monday the 18th until Friday the 22nd of July from Washington School, Spout Lane, Washington, Tyne and Wear. Operation will be on VHF, UHF, Packet and SSTV with the students taking part in the activities and demonstrations of amateur radio.

Before we go into the solar forecast, here's some news for those on packet radio. The RSGB's Propagation Studies Committee is running an experimental service on the bulletin board network with the help of G0CAS. Messages carrying the previous day's solar and geophysical data are on the T0 field under SUN.

And now the solar factual data:

The period from the 27th of June to the 3rd of July has seen an M flare, the first since last February, but despite this solar activity remains very low. Sporadic E has been reported on most days on 10 and 6 metres. On the 30th of June an M2.5/1B flare together with a B7.4 and C2.4/SF occurred. It is believed to be associated with an eruptive prominence. It was accompanied with a steep rise in X-Ray flux. The sunspots peaked at 40 with the solar flux levels averaging 80 units. Geomagnetic activity has been very unsettled with periods up to sub-storm in high latitudes; the Ap indices averaged 22.5 units but peaked at 30 on the 2nd. Though this seems a lot, slowly the disturbed periods are getting quieter each rotation.

The state has been 'nil nothing to report'. The aa indices, as supplied by the British Geological Survey for the 21st to the 27th of June, gave an average for the daily index of 18 nanoTeslas. The 23rd and 24th were

very quiet days, being down to 7.2 and 6.3 nanoTeslas with some periods of only 2 nanoTeslas. The X-Ray flux increased considerably over the period, and averaged A5.8 units, but on the 1st of July rose to A8.1, the highest levels since last May. The June spot count averaged RI 28.1 with the maximum of 63 on the 11th and zeros on the 1st to the 5th. The smoothed value for December 93 is 38.6 +/-5. The electron fluence levels are still well above normal.

I'll repeat the figures. Spots - 40; Flux - 80; Ap index - 22.5; X-ray flux - A5.8; Spots June RI 28.1.

Now the ionospheric data for Central France:

The F2 daytime critical frequencies at Poitiers, as reported by Meudon, averaged 5.9MHz and the darkness hour lows 3.4MHz. The highs are now centred about 20.00 hours, and the lows 03.00 hours.

I'll repeat the figures. Highs - 5.9MHz; lows - 3.4MHz

Now the ionospheric data for the north:

We have not received any data from Ekaterinberg this week, partly due to building work being carried out at the communications centre at Meudon. We apologise for any inconvenience.

And lastly the solar forecast:

This week, the active side of the sun will be rotating away. Solar flux levels are expected to be about the 85s, and geomagnetic activity is expected to be quieter than of late, with levels being about just unsettled. Daylight MUFs are expected to be about 21MHz, and the darkness hours about 14MHz in the south. Northern stations could be down on these levels. North/south paths are expected to be best. Sporadic E, though of less intensity, is expected to be on 10 and 6 metres particularly during daylight hours.

And that's the end of the solar information.

Finally in the main news, SSL has informed the Society that as of last Wednesday morning, the latest callsigns issued were in the G0 Uniform Zulu and G7 Sierra Lima series, and Novice calls in the 2 0 Alpha India and 2 1 Delta Delta series.

--

GB2RS is prepared by the Radio Society of Great Britain and is broadcast in the 80m, 40m, 6m and 2m bands.

Tel +44 707 659015 Fax +44 707 645105

Date: 8 Jul 1994 02:46:38 -0400
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
europa.eng.gtefsd.com!newsxfer.itd.umich.edu!montego!not-for-mail@network.ucsd.edu
To: info-hams@ucsd.edu

References <2vg6vg\$a31@nic.scruz.net>, <2vg80k\$fe8@umcc.umcc.umich.edu>,
<fn\$6kiubGEs0066yn@access.digex.net>f
Subject : Re: Does CW as a pre-req REALLY Work?

domonkos@access.digex.net (Andy Domonkos) did contribute said ASCII:

>
>Good luck and don't be discouraged w/the previous comments. Most of the
>HF spectrum is free of the garbage posted. The anti-no-code attitude
>is being stressed by the few elitists left that are afraid of losing 'their'
>precious net frequencies to the volume of newcomers. It should happen, maybe
>the frequencies won't be commandeered around the clock and people will once
>again learn to share the HF resources. The HF bands could use a fresher,
>courteous bunch. Sure, there will be some ill-feelings by many if the CW
>requirements are eased (but technical/operational requirements increased),
>that'll pass in time...
>

I've not become discouraged ; in fact, I want to get onto the HF
bands and chat with people who know a helluva lot more than I do.

The influx of "Tech No-Code" (like me) certainly sours the old-timers
who think that Extra Class is the ONLY class, and 20 WPM is too slow
(add a ! on the end)

I don't care if I have to learn 13 WPM for my general upgrade.
I don't care if it's 20 WPM. I'll learn it if that's what the FCC
says I gotta do. When I have a ham cop an attitude with me because
they realize I'm one of "them" without code, I will remember his/her
callsign and say "Do not talk to this person again - I don't need
someone copping an attitude with me". I've a couple in town who are
like that to *all* no-code licensees, and it's frustrating.
When I get older, and have been doing it for 20+ years, I'm sure the
FCC will have new regulations and rules, and I'll be doing MY set
of bitching and whining. In amateur radio, the more the merrier.

--

.....
Matt Rupert - 2984 Pheasant Run Dr. Apt D - Jackson MI 49202 - hoagy@ais.org

Personal Security / UNIX Enthusiast / Amatuer Radio - KB8SGL
Which is worse: ignorance or apathy? Who knows? Who cares?

End of Info-Hams Digest V94 #761
